



acdc electronics

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DATA INCLUDES:

Specifications
Outline and Mounting
Connection Chart
Parts List
Schematics

CASE D5 MODELS

ECV151
ECV161

D5

SPECIFICATIONS-ECV SERIES, CASE D5, DUAL OUTPUT

AC INPUT: 100/117/220/230/240 VAC, 47-440Hz
(Derate 10% for 50Hz operation)

FUSING: See chart

DC OUTPUTS: See chart

LINE REGULATION: $\pm 0.05\%$ for $\pm 10\%$ line change

LOAD REGULATION: $\pm 0.05\%$ for 50% load change

OUTPUT RIPPLE: 3mV Pk-Pk, 2mV RMS (Max)

TRANSIENT RESPONSE: 30 μ sec for 50% load change

OVERLOAD AND SHORT CIRCUIT PROTECTION:
Current limiting and foldback. Recovery automatic.

OVERVOLTAGE PROTECTION: Fixed on both outputs.
* (5V output at $6.2 \pm 0.4V$; 12V output at $13.8 \pm 0.8V$)

TEMPERATURE RATING: Full rating, 0-50°C in free air.
Derate linearly to 40% at 70°C.

TEMPERATURE COEFFICIENT: 0.02%/°C max.

REMOTE SENSING: Not available

VIBRATION: Per Mil-Std-810C, method 514.2, proc. X,
curve AW (to 50 Hz)

SHOCK: Per Mil-Std-810B, method 516, proc. V.

MODEL	RATING
ECV151	5V, 2A 12V, 4A
ECV161	5V, 2A 24V, 2.6A

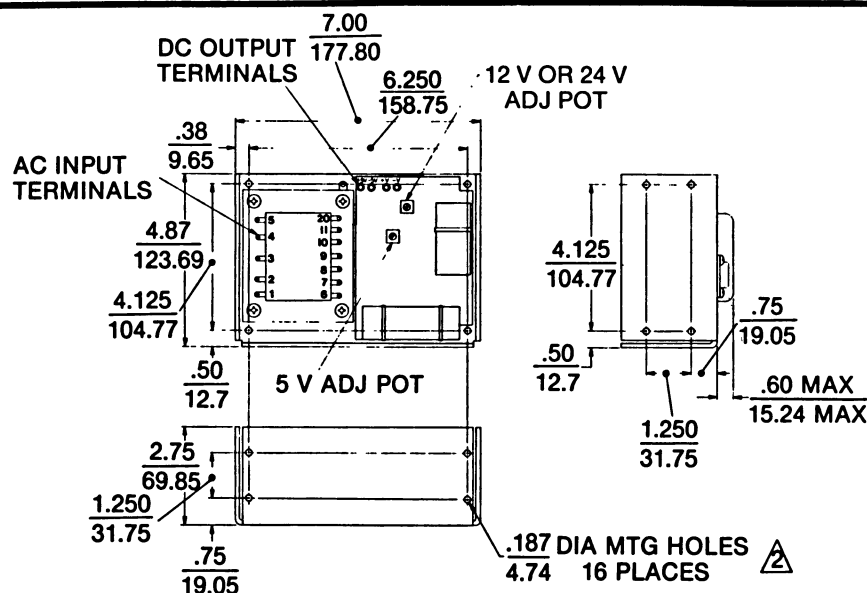
AC CONNECTIONS AND FUSING

INPUT VOLTS	CONNECT	POWER TO	FUSE
100	1-2, 3-4	1.5	3A
117	1-2, 3-4	1.4	3A
220	2-3	1.5	1.5A
230/240	2-3	1.4	1.5A

WARRANTY

When used within specified operating conditions, every catalog listed ECV/ETV Power Supply is warranted to be free from defects in materials and workmanship for a period of 2 years. This warranty shall not apply to any product or parts which have been subjected to misuse, accident or abnormal conditions of operation. This warranty covers all parts of the module, including semiconductors and capacitors. All terms of the guarantee are fully transferable when the power supply is sold as original equipment. If at any time the power supply is in need of warranty service, the purchaser should promptly notify ACDC or its authorized representative describing the conditions. The method and place of warranty service will be specified by ACDC at its sole discretion. Authorized returns for warranty service should be forwarded to the specified service location freight prepaid, where, without charge, the unit will be repaired. The sole obligation of ACDC and purchaser's exclusive remedy under this or any other warranty, expressed or implied, is the repair or replacement of defective modules as provided above. ACDC shall not be responsible for incidental or consequential damage, whether or not foreseeable, caused by defects in the power supply. In warranty units requiring calibration or mechanical damage repair will be charged.

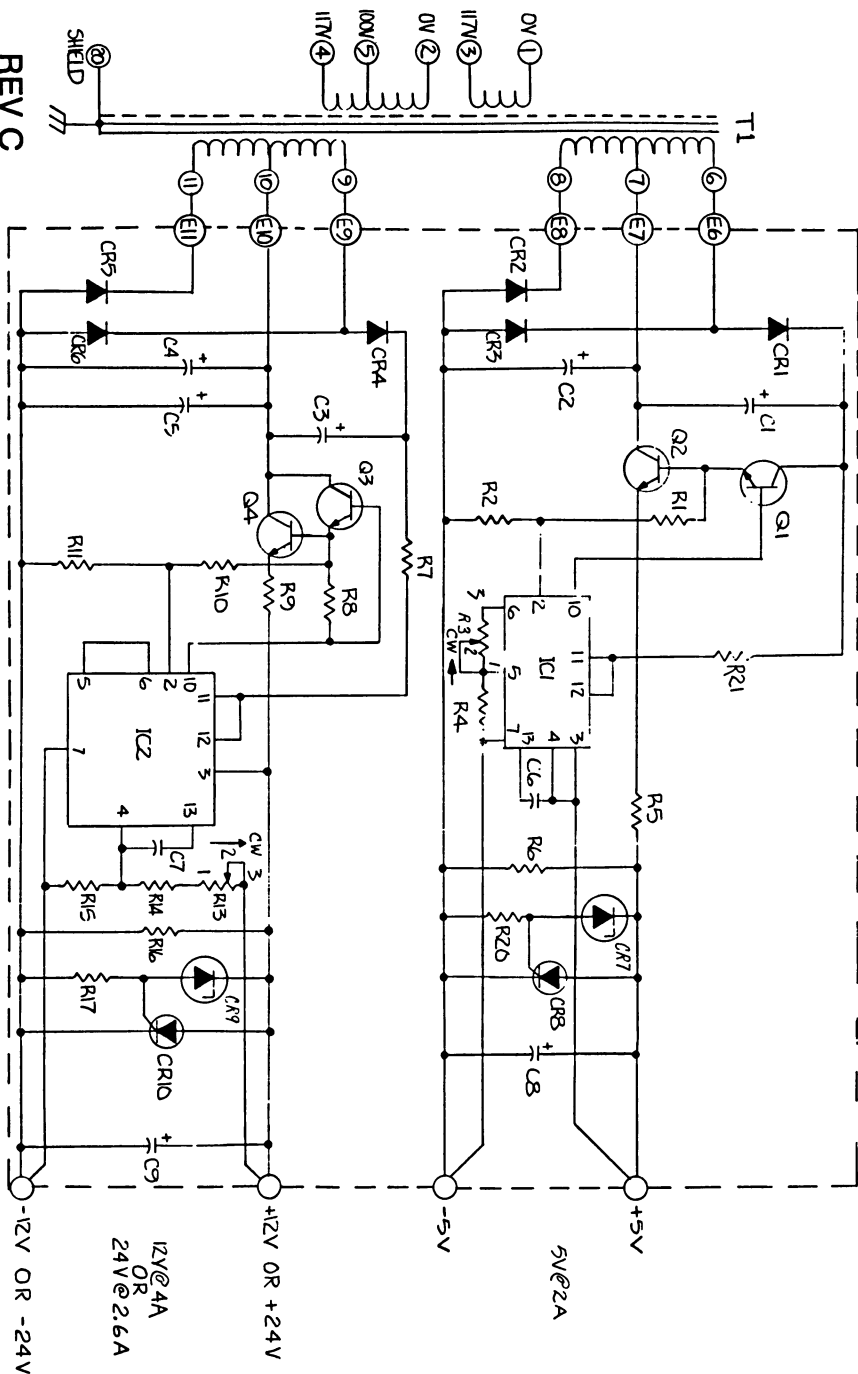
* No O.V.P. on 24VOLT output of ECV161.



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Mounting holes are correct size for installation of #6-32 PEM NUT.

REV C



ECV151/ECV161
CASE D5 - DUAL OUTPUT
70-580-001 (REV.B)
70-599-001 (REV.H)
71-023-001 (REV.A)
70-599-101 (REV.E)

REF.DES.	DESC.	MANUF.P/N	ACDC P/N	ECV151	ECV161
T1	Xfmr	ACDC		52612	
T1	Xfmr	ACDC			52797
Q2,4	Xsistor	RCA 2N3772	54-031-017	*	*
C1,8	Cap	ILL 227RAR016B	220mF/16V	62-708-025	*
C2	Cap	ILL 109TTA016B	10KmF/16V	54-032-032	*
C3,9	Cap	ILL 107RAR035B	100mF/35V	62-708-026	*
C3	Cap	ILL 476RAR050B	47mF/50V	62-708-027	*
C4,5	Cap	MAL TCG322U030N2L3P	3200mF/30V	54-668-048	*
C4,5	Cap	ILL 228TTA050B	2200mF/50V	54-032-037	*
C6	Cap	SPR 5HKS-S10	0.01mF/500V	52-231-103	*
C6,7	Cap	SPR 5HKS-S10	0.01mF/500V	52-231-103	*
C7	Cap	MUR GPK-221KA	220pF/1KV	52-231-221	*
C9	Cap	ILL 107RAR035B	100mF/35V	62-708-026	*
CR1,4	Diode	MOT 1N4004	50-464-003	*	*
CR2,3,5,6	Diode	MOT MR501	50-464-020	*	*
CR7	Diode	MOT 1N752A	51-739-018	*	*
CR8,10	SCR	RCA C122F	52-714-042	*	*
CR8	SCR	RCA C122F	52-714-042	*	*
CR9	Diode	MOT 1N964B	51-739-066	*	*
CR11	Diode	OMIT		*	*
CR11	Diode	MOT 1N972B	51-739-068	*	*
IC1,2	V.Reg.	FAIRCHILD uA723	66-780-000	*	*
Q1,3	Xsistor	MOT TIP31A	54-031-074	*	*
R1	Res	178 Ohm 1% 1/4W	54-354-225	*	*
R2	Res	1.54K 1% 1/4W	54-354-319	*	*
R3,13	Pot	5K 10% 1/2W SPEC 63P502T010	68-715-502	*	*
R4	Res	4.99K 1% 1/4W	54-354-368	*	*
R4,14	Res	4.99K 1% 1/4W	54-354-368	*	*
R5	Res	0.22 Ohm 5% 2W	52-064-228	*	*
R5,9	Res	0.22 Ohm 5% 2W	52-064-228	*	*
R6	Res	270 Ohm 5% 1/2W	50-461-271	*	*
R7	Res	910 Ohm 5% 1/2W	50-461-911	*	*
R7	Res	2.7K 5% 1/2W	50-461-272	*	*
R8	Res	2.2K 5% 1/2W	50-461-222	*	*
R9	Res	0.12 Ohm 5% 2W	52-064-128	*	*
R10	Res	169 Ohm 1% 1/4W	54-354-223	*	*
R11	Res	3.24K 1% 1/4W	54-354-350	*	*
R11	Res	4.75K 1% 1/4W	54-354-366	*	*
R14	Res	13K 1% 1/4W	54-354-412	*	*
R15	Res	9.76K 1% 1/4W	54-354-396	*	*
R15	Res	6.49K 1% 1/4W	54-354-379	*	*
R16	Res	1K 5% 1/2W	50-461-102	*	*
R17,20	Res	47 Ohm 5% 1/2W	50-461-470	*	*
R20	Res	47 Ohm 5% 1/2W	50-461-470	*	*
R21	Res	1.6K 5% 1/2W	50-461-162	*	*